

## UNITED STATE PARTMENT OF COMMERCE Patent and Trace Lark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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	APPLICATION NUMBER	FILING DATE	FIRST N	AMED APPLICANT	ATTY, DOCKET NO.		
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			OFFICE ACTIO	N SUMMARY	e e e e e e e e e e e e e e e e e e e		
	Responsive to commun	nication(s) filed on			. · · · · · ·		
	This action is FINAL.	``					
_	Since this application is	in condition for a	llowance except for forma	l matters, prosecution as to	the merits is closed in		
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A sh	ortened statutory perio	d for response to	this action is set to expire	_30 dos .	menth(e), of thirty, days,		
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Dis	osition of Claims	•			r		
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B	Of the above, claim(s)				_is/are pending in the application. are withdrawn from consideration.		
П					is/are allowed.		
	O1 1 1 1				is/are rejected.		
$\Box$	Claim(s)				is/are objected to.		
Z	Claim(s) 1-8			are subject to	restriction or election requirement.		
App	lication Papers						
	See the attached Notic	e of Draftsperson'	s Patent Drawing Review,				
	The drawing(s) filed on						
님	The proposed drawing			is	approved disapproved.		
H	The specification is obj	· · · · · · · · · · · · · · · · · · ·					
The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. § 119							
_	•		oreign priority under 35 U	l.S.C. § 119(a)-(d).	•		
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been							
	received.			•			
	received in Applica	ation No. (Series C	Code/Serial Number)	<u></u>			
	received in this na	tional stage applic	ation from the Internation	al Bureau (PCT Rule 17.2(a))			
•	Certified copies not rec	eived:		······			
	Acknowledgment is ma	ade of a claim for o	domestic priority under 35	U.S.C. § 119(e).			
Attachment(s)							
	Notice of Reference C	ited, PTO-892					
	Information Disclosure	Statement(s), PT	O-1449, Paper No(s)				

-SEE OFFICE ACTION ON THE FOLLOWING PAGES-

☐ Interview Summary, PTO-413

Notice of Draftperson's Patent Drawing Review, PTO-948

Notice of Informal Patent Application, PTO-152

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## **DETAILED ACTION**

## Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-15, 71 and 79, drawn to human ESX polynucleotides, classified in class 536, subclass 23.1, for example. Claims 71 and 79 will be examined with Group I to the extent that they read on a recombinant cell and a kit comprising human ESX polynucleotides.
  - II. Claims 16-27, 71 and 79, drawn to murine ESX polynucleotides, classified in class 536, subclass 23.1, for example. Claims 71 and 79 will be examined with Group II to the extent that they read on a recombinant cell and a kit comprising murine ESX polynucleotides.
  - III. Claims 28-32, 78 and 79, drawn to human ESX polypeptides, classified in class 530, subclass 324. Claims 78 and 79 will be examined with Group III to the extent that they read on a pharmaceutical composition and a kit comprising human ESX polypeptides.
  - IV. Claims 33-37, 78 and 79, drawn to murine ESX polypeptides, classified in class 530, subclass 324. Claims 78 and 79 will be examined with Group IV to the extent that they read on a pharmaceutical composition and a kit comprising murine ESX polypeptides.

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V. Claims 38-45, 78 and 79, drawn to human anti-ESX antibody, classified in class 530, subclass 387.1. Claims 78 and 79 will be examined with Group V to the extent that they read on a pharmaceutical composition and a kit comprising human ESX antibodies.

- VI. Claims 46-56, 61-63, drawn to hybridization-based detection methods, classified in class 435, subclass 6. Claims 46,47,49-54 will be examined with Group VI to the extent that they read on hybridization-based detection methods.
- VII. Claims 46, 47,49-54 and 57-60, drawn to antibody-based detection methods,

  classified in class 435, subclass 7.1. Claims 46,47,49=54 will be examined with

  Group VII to the extent that they read on antibody-based detection methods.
- VIII. Claims 64-68, drawn to methods of inhibiting growth, comprising administering an antisense nucleotide, classified in class 536, subclass 24.5. Claims 64-66 will be examined with Group VIII to the extent that they read on methods of inhibiting growth with anti-sense nucleotides.
- IX. Claims 64-65, 69, drawn to methods of inhibiting growth, comprising administering an antibody, classified in class 424, subclass 130.1. Claims 64-65 will be examined with Group IX to the extent that they read on methods of inhibiting growth with antibodies.
- X. Claims 64-65, and 70, drawn to methods of inhibiting growth, comprising administering an inactive ESX, classified in class 514, subclass 2, for example.

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Claims 64-65 will be examined with Group X to the extent that they read on methods of inhibiting growth with inactive ESX.

- XI. Claims 72-76, drawn to transgenic animals, classified in class 800, subclass 13.
- XII. Claim 77, drawn to method of determining whether a gene is regulated by an ESX polypeptide, classified in class 435, subclass 6.
- XIII. Claim 78, drawn to a pharmaceutical composition of a vector encoding an ESX nucleic acid (gene therapy), classified in class 514, subclass 44. Claim 78 will be examined to the extent that it reads on gene therapy.
- XIV. Claim 80, drawn to a method of screening for a therapeutic lead compound, classified in class 436, subclass 6.
- XV. Claim 81, drawn to a method for identification of potential therapeutic targets, classified in class 435, subclass 6, for example.
- 2. The inventions are distinct, each from the other because of the following reasons:

Each of inventions I-V, XI and XV is directed to a separate and distinct product. Each of inventions I-V, XI and XV would be expected to have distinct morphological, functional, chemical and physical properties as evidenced by divergent classification. It is possible to separately manufacture, use and sell the products as claimed. Furthermore, these products are patentable over each other (though they may each be unpatentable because of the prior art). Inventions I and II and III and IV have the same class and subclass designations but inventions I

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and III are drawn to human polynucleotides and polypeptides, respectively; and II and IV are drawn to murine polynucleotides and polypeptides, respectively.

Each of inventions VI-X, XII, XIV and XV is directed to a separate and distinct process.

Each of the processes are distinct both physically and functionally, require different steps and use different products.

Inventions I or II and VI, VIII, XIV or XV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, as the claims are written inventions VI, VIII, XIV and XV are related to either I or II, thus demonstrating that each of these process can use materially different products. In addition, as the claims are written, both products can be used in multiple processes.

Inventions V and VII or IX are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product as claimed can be used in at least two materially different processes.

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Inventions III or IV and XII, XIV or XV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, as the claims are written, inventions XIV and XV are related to either III or IV, thus demonstrating that each of these process can use materially different products. In addition, as the claims are written, both products can be used in multiple processes.

The several inventions above are independent and distinct, each from the other. They have acquired a separate status in the art as separate subjects for inventive effect and require independent searches (as indicated by the different classification). The search for each of the above inventions is not co-extensive with regard to the literature search.

3. Because these inventions are independent and distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and recognized divergent subject matter and because searches required for the groups are not co-extensive, restriction for examination purposes as indicated is proper.

## Advisory information

4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently

named inventors is no longer an inventor of at least one claim remaining in the application. Any

amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the

fee required under 37 CFR 1.17(I).

6. Any inquiry concerning this communication or earlier communications from the Examiner

should be directed to Anne Holleran, Ph.D. whose telephone number is (703) 308-8892. Ms.

Holleran can normally be reached Monday through Friday, 9:00 am to 5:00 pm. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Hutzel, Ph.D.

can be reached at (703) 308-4310.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist at telephone number (703) 308-0196.

Anne Holleran
Patent Examiner

ArH

March 22, 1999

Nancy A Johnson